

The SPURS Data Management System (DMS)

A black and white photograph of a control room. In the foreground, a person is seated at a console with multiple monitors and a keyboard. In the background, another person is standing and looking at a large display. The room is filled with various pieces of equipment and monitors, suggesting a complex data management system.

Frederick Bingham (UNC-Wilmington)
Yi Chao (JPL)

Also: Andrew Bingham (PO.DAAC), Peggy Li and
Quoc Vu (JPL)

Vision for the SPURS-DMS

- Exchange of data collected by SPURS PIs
- Access data collected by ancillary programs (e.g. Argo, PIRATA)
- Exchange model results
- Provide analysis and visualization tools
- Long-term storage and archival of SPURS data
- Create a collaboration portal to facilitate program planning and execution

Vision for the SPURS-DMS

The data police



The data servant



Examples of Similar Efforts

- [CLIMODE](#)
- [USKESS](#)
- [EPIC](#)
- [Monterey Bay Field Experiment 06](#)
- [MB 2006 Visualization](#)
- [Southern California Bight](#)



Data Sharing Policy

- SPURS is a fundamentally collaborative experiment. All SPURS PIs will have access to the DMS
- SPURS-DMS is a *virtual* data center. PIs are responsible for processing, access control, storage and QA/QC of their own data
- A draft Data Sharing Policy has been distributed among SPURS PIs

Data Sharing



- PIs will provide data to the DMS in near-real time (or as near as possible), even if data are only preliminary
- Purpose: to facilitate experiment planning and execution
- Challenge: “to serve the public and ocean applications with NRT data and analysis while simultaneously conducting cutting-edge research and observations” EJL, 1/25/2011

Archival and Long-term Storage

- PIs will provide the DMS a final copy of their data within 6 months of the end of the final cruise
- SPURS data will be made fully available to the public at the end of the program
- We are planning for the long-term maintenance of the dataset at PO.DAAC

The SPURS Collaboration Portal

The background of the slide is a grayscale photograph of a control room. Several individuals are visible, some seated at large computer consoles with multiple monitors, and others standing. The room appears to be a professional environment, possibly for scientific or technical data analysis.

- Example
- To facilitate sharing of ideas
- To document when and why decisions were made and expedite input from SPURS PIs
- To provide a common calendar, forum, wiki, blog, etc.
- To make our science available to the others in the field, funding agencies and the public

What we need from you

- Consensus on the Data Sharing Policy!!
- Complete the Data Provider Census form
- Who is going to collect and analyze any ancillary research vessel data, e.g. TSG, Met, ADCP?
- Ideas and needs for the collaboration portal
- To get ideas about what would be most useful in planning and execution of the experiment in terms of data management
- You are the stakeholders!